INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40163

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B 62 B 3/00, 3/02				
US CL	: 280/30; 643			
	International Patent Classification (IPC) or to both na	tional classification and	IPC	
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 28	80/30; 643, 647, 648; 224/153, 155	,, 0	••	
Documentation	on searched other than minimum documentation to the	extent that such docume	anta ara included is	+La fields searched
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the releva	nt passages	Relevant to claim No.
х	US 4,487,428 (HARADA et al) 11 December 1984 (11.12.1984), all			I-5 and 8
	potencia lista			
Y	6, 7, 9-13, 16-19 and 21			
х	X US 4,620,711 (DICK) 4 November 1986 (04.11.1986), Figures 7-9 and lines			2, 4 and 8
	column 8			2, 7 010 0
Y				9 and 10
х	US 4,878,680 (MOLNAR) 7 November 1989 (09.11.1989), Figures 1, 2 and reference			14 and 15
 Y	number 24			
1				6, 7, 9-13, 16-19 and 21
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Fuetbox	decuments are listed in the section stire of Paris		1	<u> </u>
	documents are listed in the continuation of Box C.	See patent fa		
	pecial categories of cited documents:			mational filing date or priority ation but cited to understand the
"A" document	defining the general state of the art which is not considered to be of		cory underlying the inve	
		"X" document of p	articular relevance; the	claimed invention cannot be
"E" earlier application or patent published on or after the international filing date		considered nov when the docu	el or cannot be conside ment is taken alone	red to involve an inventive step
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of p		claimed invention cannot be
specified)		considered to i	nvolve an inventive step	when the document is
"O" document referring to an oral disclosure, use, exhibition or other means		combined with		documents, such combination
			•	
	published prior to the international filing date but later than the steelaimed	"&" document men	ber of the same patent	family
Date of the actual completion of the international search 14 August 2004 (14.08.2004) Date of mailing of the international search 7 MAR 2005				
		2	07 MAR	2005
	04 (14.08.2004) iling address of the ISA/US	Authorized officer		
	I Stop PCT, Attn: ISA/US	12/1/		
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Form PCT/ISA/210 (second sheet) (July 1998)